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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR , ATTORNEY DOCKET NO.		CONFIRMATION NO.	
09/850,053 05/08/2001		05/08/2001	Kazutaka Inukai	12732-043001	9175
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Α	Application No.	Applicant(s)					
,			09/850,053	INUKAI, KAZUTAKA					
Office Action Summary			xaminer	Art Unit					
			rabodh M Dharia	2673					
Period fe	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE - Exte after - If the - If NC - Failt - Any	ORTENED STATUTORY PERIOD MAILING DATE OF THIS COMMUI nsions of time may be available under the provision SIX (6) MONTHS from the mailing date of this cone is period for reply specified above is less than thirty period for reply is specified above, the maximum are to reply within the set or extended period for repreply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	NICATION. ns of 37 CFR 1.136(a nmunication. (30) days, a reply with statutory period will a ly will, by statute, cau	hin the statutory minimum of thirty (30) day pply and will expire SIX (6) MONTHS from use the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
1)⊠	Responsive to communication(s) fi	led on <u>01 Octo</u>	<i>ber 2003</i> .						
2a) <u></u> □	This action is FINAL.	2b)⊠ This act	ion is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
5)□ 6)⊠ 7)⊠	Claim(s) <u>36-63 and 132-141</u> is/are pending in the application. 4a) Of the above claim(s) <u>1-35,63-131</u> is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) <u>36,37,39-51,53-63,132,133 and 135-141</u> is/are rejected. Claim(s) <u>38,52,134</u> is/are objected to. Claim(s) are subject to restriction and/or election requirement.								
Application Papers									
	The specification is objected to by t		•						
10)	The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11)⊠	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)⊠ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. §§ 119 and 120									
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.									
Attachment	(s)								
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (nation Disclosure Statement(s) (PTO-1449) F	PTO-948) Paper No(s)	5) Notice of Informal Pa	(PTO-413) Paper No(s) atent Application (PTO-152)					

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1. Status: Receipt is acknowledged of papers submitted on 10-01-2003 under request for reconsideration have been placed of record in the file. Claims 36-63,132-141 are pending in this action.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

3. Claims 36-63,132-141 are rejected under 35 U.S.C. 102(e) as being anticipated by Tanaka et al. (6,635,505 B2).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Regarding Claim 36, Tanaka et al. teaches a light emitting device (EL display, LCD display) (Col. 27, Line 15, Col. 5, Lines 53-55) comprising: a source signal line driver circuit (Col. 3, Lines 40-43); a gate signal line driver circuit (Col. 3, Lines 43-45); an opposing power source line driver circuit (Col. 3, Lines 55-58, Col. 2, Line 65 to Col. 3, Line 4); a pixel portion comprising a plurality of pixels (Col. 5, Lines 58-60); a plurality of source signal lines connected to the source signal line driver circuit (Col. 3, Lines 21-24); a plurality of gate signal lines

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connected to the gate signal line driver circuit (Col. 3, Lines 23-25); a plurality of opposing power source lines connected to the opposing power source line driver circuit (Col. 3, Lines 55-58, Col. 2, Line 65 to Col. 3, Line 4); and a plurality of power source supply lines (Col. 3, Lines 55-58, Col. 2, Line 65 to Col. 3, Line 4), wherein each pixel comprises: a switching TFT (Col. 3, Lines 25,26) having a gate electrode connected to any one of the plural gate signal lines (Col. 3, Lines 29,30) and a source region and a drain region, one of which is connected to any one of the plural source signal lines (Col. 3, Lines 23-30, figure 30B, Col. 32, Lines 45-59, Col. 20, Lines); an electro luminescence driver TFT, a gate electrode of said electro luminescence driver TFT connected to the other of said source region and said drain region of switching TFT (figure 30B, Col. 32, Lines 45-59); an electro luminescence element comprises a pixel electrode, an opposing electrode connected to any one of the plural opposing power source lines (figure 30B, Col. 32, Lines 45-59), and an electro luminescence layer provided between the pixel electrode and the opposing electrode; wherein the electro luminescence driver TFT has a source region connected to any one of the plural power source supply lines (figure 30B, Col. 32, Lines 45-59) and the electro luminescence driver TFT has a drain region connected to the pixel electrode (figure 30B, Col. 32, Lines 45-59).

Regarding Claim 37, Tanaka et al. teaches the electro luminescence layer is formed of a monomer organic material or a polymer organic material (Col. 31, Lines 3-7).

Regarding Claim 39, Tanaka et al. teaches the polymer organic material comprises PPV (polyphenylene vinylene), PVK (polyvinyl carvazole) or polycarbonate (Col. 31, Lines 3-7).

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Regarding Claim 40, Tanaka et al. teaches when the pixel electrode is a cathode, the electro luminescence driver TFT is an n-channel TFT (Col. 28, Lines 15-26, Col. 30, Line 8, Lines 55-58); it is obvious to one in the ordinary skill in the art when the pixel electrode is an anode, the electro luminescence driver TFT is a p-channel TFT.

Regarding Claim 41, Tanaka et al. teaches when the pixel electrode is a cathode, the electro luminescence driver TFT is an n-channel TFT (Col. 28, Lines 15-26, Col. 30, Line 8, Lines 55-58).

Regarding Claim 42, Tanaka et al. teaches the pixel electrode is connected to the drain region of the electro luminescence driver TFT directly or through at least one wiring, and wherein a bank is formed on a region where the pixel electrode is connected to the drain region of the electro luminescence driver TFT, or on a region where the pixel electrode is connected to at least one wiring (Col. 27, lines 12-43, Col. 28, Lines 5-27, Lines 62-67)

Regarding Claim 43, Tanaka et al. teaches the bank has a light-shielding property (Col. 22, Lines 39-43).

Regarding Claim 44, Tanaka et al. teaches the switching TFT or the electro luminescence driver TFT is of top gate type (Col. 23, Lines 14-17).

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Regarding Claim 45, Tanaka et al. teaches the switching TFT or the electro luminescence driver TFT is of bottom gate type (Col. 23, Lines 14-17).

Regarding Claim 46, Tanaka et al. teaches the electro luminescence driver TFT is driven in a linear range (Col. 30, Lines 9-13 since switching TFT operates in Linear region as they saturate and active region turned on and turned off, Col. 24, Lines 31-36)

Regarding Claim 47, Tanaka et al. teaches the light emitting device is a computer (Col. 25, Lines 5-15).

Regarding Claim 48, Tanaka et al. teaches the light emitting device is a video camera (Col. 25, Lines 5-15).

Regarding Claim 49, Tanaka et al. teaches the light emitting device is a DVD player (Since computer or TV player uses recording medium and display information of DVD this invention is applicable to the display device; Col. 25, Lines 5-15).

Regarding Claim 50, Tanaka et al. teaches a light emitting device (EL display, LCD display) (Col. 27, Line 15, Col. 5, Lines 53-55) comprising: a source signal line driver circuit (Col. 3, Lines 40-43); a gate signal line driver circuit (Col. 3, Lines 43-45); an opposing power source line driver circuit (Col. 3, Lines 55-58, Col. 2, Line 65 to Col. 3, Line 4); a pixel portion comprising a plurality of pixels (Col. 5, Lines 58-60); a plurality of source signal lines connected

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to the source signal line driver circuit (Col. 3, Lines 21-24); a plurality of gate signal lines connected to the gate signal line driver circuit (Col. 3, Lines 23-25); a plurality of opposing power source lines connected to the opposing power source line driver circuit (Col. 3, Lines 55-58, Col. 2, Line 65 to Col. 3, Line 4); and a plurality of power source supply lines (Col. 3, Lines 55-58, Col. 2, Line 65 to Col. 3, Line 4), wherein each pixel comprises: a switching TFT (Col. 3, Lines 25,26) having a gate electrode connected to any one of the plural gate signal lines (Col. 3, Lines 29,30) and a source region and a drain region, one of which is connected to any one of the plural source signal lines (Col. 3, Lines 23-30, figure 30B, Col. 32, Lines 45-59, Col. 20, Lines); an electro luminescence driver TFT, a gate electrode of said electro luminescence driver TFT connected to the other of said source region and said drain region of switching TFT (figure 30B, Col. 32, Lines 45-59); an electro luminescence element comprises a pixel electrode, an opposing electrode connected to any one of the plural opposing power source lines (figure 30B, Col. 32, Lines 45-59), and an electro luminescence layer provided between the pixel electrode and the opposing electrode; wherein the electro luminescence driver TFT has a source region connected to any one of the plural power source supply lines (figure 30B, Col. 32, Lines 45-59) and the electro luminescence driver TFT has a drain region connected to the pixel electrode (figure 30B, Col. 32, Lines 45-59).

Regarding Claim 51, Tanaka et al. teaches the electro luminescence layer is formed of a monomer organic material or a polymer organic material (Col. 31, Lines 3-7).

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Regarding Claim 53, Tanaka et al. teaches the polymer organic material comprises PPV (polyphenylene vinylene), PVK (polyvinyl carvazole) or polycarbonate (Col. 31, Lines 3-7).

Regarding Claim 54, Tanaka et al. teaches when the pixel electrode is a cathode, the electro luminescence driver TFT is an n-channel TFT (Col. 28, Lines 15-26, Col. 30, Line 8, Lines 55-58); it is obvious to one in the ordinary skill in the art when the pixel electrode is an anode, the electro luminescence driver TFT is a p-channel TFT.

Regarding Claim 55, Tanaka et al. teaches when the pixel electrode is a cathode, the electro luminescence driver TFT is an n-channel TFT (Col. 28, Lines 15-26, Col. 30, Line 8, Lines 55-58).

Regarding Claim 56, Tanaka et al. teaches the pixel electrode is connected to the drain region of the electro luminescence driver TFT directly or through at least one wiring, and wherein a bank is formed on a region where the pixel electrode is connected to the drain region of the electro luminescence driver TFT, or on a region where the pixel electrode is connected to at least one wiring (Col. 27, lines 12-43, Col. 28, Lines 5-27, Lines 62-67)

Regarding Claim 57, Tanaka et al. teaches the bank has a light-shielding property (Col. 22, Lines 39-43).

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Regarding Claim 58, Tanaka et al. teaches the switching TFT or the electro luminescence driver TFT is of top gate type (Col. 23, Lines 14-17).

Regarding Claim 59, Tanaka et al. teaches the switching TFT or the electro luminescence driver TFT is of bottom gate type (Col. 23, Lines 14-17).

Regarding Claim 60, Tanaka et al. teaches the electro luminescence driver TFT is driven in a linear range (Col. 30, Lines 9-13 since switching TFT operates in Linear region as they saturate and active region turned on and turned off, Col. 24, Lines 31-36)

Regarding Claim 61, Tanaka et al. teaches the light emitting device is a computer (Col. 25, Lines 5-15).

Regarding Claim 62, Tanaka et al. teaches the light emitting device is a video camera (Col. 25, Lines 5-15).

Regarding Claim 63, Tanaka et al. teaches the light emitting device is a DVD player (Since computer or TV player uses recording medium and display information of DVD this invention is applicable to the display device; Col. 25, Lines 5-15).

Regarding Claim 132, Tanaka et al. teaches a light emitting device (EL display, LCD display) (Col. 27, Line 15, Col. 5, Lines 53-55) comprising: a source signal line driver circuit

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(Col. 3, Lines 40-43); a gate signal line driver circuit (Col. 3, Lines 43-45); an opposing power source line driver circuit (Col. 3, Lines 55-58, Col. 2, Line 65 to Col. 3, Line 4); a pixel portion comprising a plurality of pixels (Col. 5, Lines 58-60); a plurality of source signal lines connected to the source signal line driver circuit (Col. 3, Lines 21-24); a plurality of gate signal lines connected to the gate signal line driver circuit (Col. 3, Lines 23-25); a plurality of opposing power source lines connected to the opposing power source line driver circuit (Col. 3, Lines 55-58, Col. 2, Line 65 to Col. 3, Line 4); and a plurality of power source supply lines (Col. 3, Lines 55-58, Col. 2, Line 65 to Col. 3, Line 4), wherein each pixel comprises: a switching TFT (Col. 3, Lines 25,26) having a gate electrode connected to any one of the plural gate signal lines (Col. 3, Lines 29,30) and a source region and a drain region, one of which is connected to any one of the plural source signal lines (Col. 3, Lines 23-30, figure 30B, Col. 32, Lines 45-59, Col. 20, Lines); an electro luminescence driver TFT, a gate electrode of said electro luminescence driver TFT connected to the other of said source region and said drain region of switching TFT (figure 30B, Col. 32, Lines 45-59); an electro luminescence element comprises a pixel electrode, an opposing electrode connected to any one of the plural opposing power source lines (figure 30B, Col. 32, Lines 45-59), and an electro luminescence layer provided between the pixel electrode and the opposing electrode; wherein the electro luminescence driver TFT has a source region connected to any one of the plural power source supply lines (figure 30B, Col. 32, Lines 45-59) and the electro luminescence driver TFT has a drain region connected to the pixel electrode (figure 30B, Col. 32, Lines 45-59).

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Regarding Claim 133, Tanaka et al. teaches the electro luminescence layer is formed of a monomer organic material or a polymer organic material (Col. 31, Lines 3-7).

Regarding Claim 135, Tanaka et al. teaches the polymer organic material comprises PPV (polyphenylene vinylene), PVK (polyvinyl carvazole) or polycarbonate (Col. 31, Lines 3-7).

Regarding Claim 136, Tanaka et al. teaches when the pixel electrode is a cathode, the electro luminescence driver TFT is an n-channel TFT (Col. 28, Lines 15-26, Col. 30, Line 8, Lines 55-58); it is obvious to one in the ordinary skill in the art when the pixel electrode is an anode, the electro luminescence driver TFT is a p-channel TFT.

Regarding Claim 137, Tanaka et al. teaches when the pixel electrode is a cathode, the electro luminescence driver TFT is an n-channel TFT (Col. 28, Lines 15-26, Col. 30, Line 8, Lines 55-58).

Regarding Claim 138, Tanaka et al. teaches the pixel electrode is connected to the drain region of the electro luminescence driver TFT directly or through at least one wiring, and wherein a bank is formed on a region where the pixel electrode is connected to the drain region of the electro luminescence driver TFT, or on a region where the pixel electrode is connected to at least one wiring (Col. 27, lines 12-43, Col. 28, Lines 5-27, Lines 62-67)

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Regarding Claim 139, Tanaka et al. teaches the bank has a light-shielding property (Col. 22, Lines 39-43).

Regarding Claim 140, Tanaka et al. teaches the switching TFT or the electro luminescence driver TFT is of top gate type (Col. 23, Lines 14-17).

Regarding Claim 141, Tanaka et al. teaches the switching TFT or the electro luminescence driver TFT is of bottom gate type (Col. 23, Lines 14-17).

Allowable Subject Matter

- 4. Claims 38,52,134 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. The following is an examiner's statement of reasons for allowance: The cited refrence of Tanaka et al. (6,635,505 B2) fails to teach the monomer organic material comprises Alq₃, (tris-8-quinolilite-aluminum) or TPD (triphenylamine derivative).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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render the claims obvious.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant is informed that all of the other additional cited references anticipates or

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Yamazaki et al. (6,167,644 B1) Semiconductor device and method of manufacturing the same.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prabodh M Dharia whose telephone number is 703-605-1231. The examiner can normally be reached on M-F 8AM to 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 703-3054938. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4750.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

PD

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08-13-2003

VIJAY ŠHANKAR PRIMARY EXAMINER